**The Fungi Kingdom – Worksheet to Accompany the PowerPoint**

**Common Characteristics of the Fungi Kingdom**

* Cells are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (have membrane-bound organelles)
* All cells are surrounded by a \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ containing \_\_\_\_\_\_\_ not \_\_\_\_\_\_\_\_ like plants
* Most are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_are single-celled)
* Reproduction is \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_, by producing \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* They are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!)
* Many are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_in the soil, but without true \_\_\_\_\_\_\_\_\_\_
* Some fungi are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Other fungi cause \_\_\_\_\_\_\_\_\_\_\_\_\_. (eg. Some \_\_\_\_\_\_\_\_\_\_\_\_\_)
* Some are \_\_\_\_\_\_\_\_\_\_\_\_\_\_(eg. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)
* Some form \_\_\_\_\_\_\_\_\_\_\_\_\_ relationships (a relationship where both organisms benefit).







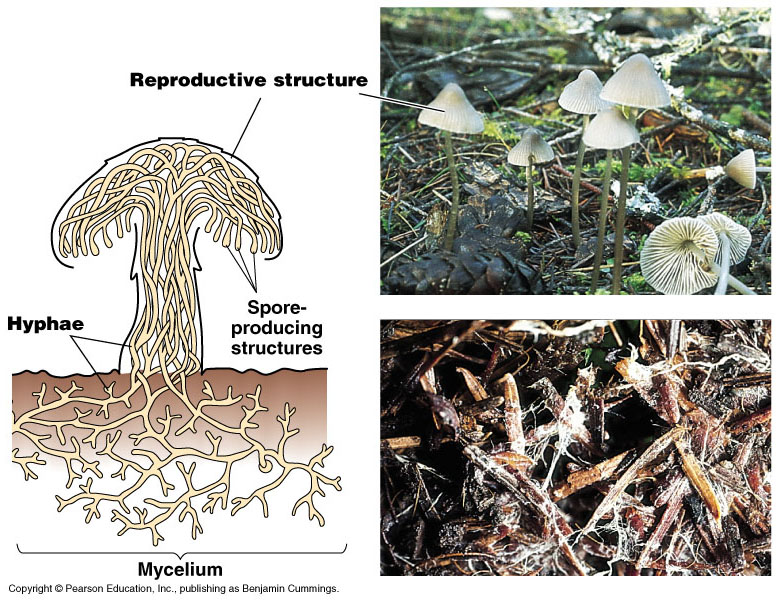
**Fungal Structures**

* They DO \_\_\_\_\_\_\_\_\_\_\_ have ­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* They have long, thread-like microscopic \_\_\_\_\_\_\_\_called **\_\_\_\_\_\_\_\_\_\_\_**, which form masses called

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* The \_\_\_\_\_\_\_\_\_ grow in and around a \_\_\_\_\_\_\_\_\_ source, secreting \_\_\_\_\_\_\_\_\_\_\_\_\_\_ enzymes

and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into the fungus.



**Growth**

* Cells grow at the \_\_\_\_\_\_\_\_\_\_ only.
* This allows them to colonize \_\_\_\_\_\_\_\_\_ or living \_\_\_\_\_\_\_\_\_\_\_\_\_\_ matter.

**Nutrition**

* All fungi are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and obtain nutrients from other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* They obtain this nutrition by **\_\_\_\_\_\_\_\_\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_\_\_\_** digestion and \_\_\_\_\_\_\_\_\_\_\_\_\_\_,

not by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Reproduction**

* Fungi reproduce by \_\_\_\_\_\_\_\_\_\_\_\_\_, which are single \_\_\_\_\_\_\_\_\_ surrounded by a wall.
* Spores are carried by \_\_\_\_\_ currents to new sources where they give rise to new \_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_ reproduction: fungi produce spores by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_ reproduction: fungi produce spores by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Phyla of Kingdom Fungi**

**Phylum** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Example: \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)
* Most in this division are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ break into the food source, and are then termed **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
* Rhizoids draw \_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_ from the bread (or food source) thus allowing the mould to grow further.
* After a \_\_\_\_\_\_\_\_\_\_\_ days, case-like structure called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** appear.
* Each \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can produce several \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ spores.
* When the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ break open, the \_\_\_\_\_\_\_\_\_\_\_\_ are carried by the air to allow colonization of new areas.
* Under \_\_\_\_\_\_\_\_\_\_favourable conditions, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_reproduce \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Two \_\_\_\_\_\_\_\_\_\_\_form which \_\_\_\_\_\_\_\_\_\_\_\_ and produce a **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
* **Zygospores** stay \_\_\_\_\_\_\_\_\_\_\_\_\_\_ until growing conditions are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Phylum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Examples: \_\_\_\_\_\_\_\_\_\_\_, some \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, some \_\_\_\_\_\_\_\_\_\_\_.
* Fungi in this division form \_\_\_\_\_\_\_\_\_\_\_\_\_ structures for \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Spores produced by \_\_\_\_\_\_\_\_\_\_\_\_ reproduction in these are termed **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, and

are produced in a sac called an **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

* Spores produced asexually are called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Phylum**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Examples: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, rusts, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Under \_\_\_\_\_\_\_\_\_\_ conditions, the \_\_\_\_\_\_\_\_\_\_\_mass form \_\_\_\_\_\_\_\_ which absorb water and grow quite large.
* These knobs become \_\_\_\_\_\_ bearing structures and appear as **\_\_\_\_\_\_\_\_\_\_**. (fruiting bodies)
* The **\_\_\_\_\_\_\_\_** have \_\_\_\_\_\_\_\_\_ that have thousands of reproductive cells called **\_\_\_\_\_\_\_\_\_\_\_.**
* Each \_\_\_\_\_\_\_\_\_\_\_has several \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_spores.

**Phylum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* They are the only fungi with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (their spores have flagella)
* Most are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* They can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* They can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and live on decaying plants or \_\_\_\_\_\_\_\_\_\_\_\_!



Representatives of the Fungi Kingdom (p. 81)

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| --- | --- |
| Phylum | Characteristics |
| chytridiomycota |  |
| zygomycota |  |
| glomeromycota |  |
| ascomycota |  |
| basidiomycota |  |

Read p. 80-84 p. 85 # 1,2,5,11